Management of patients for fractured neck of femur surgery

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BACKGROUND

- Hip fractures are increasing as the population ages, with a projected incidence in England of 100,000 annually by 2033.¹
- Mortality has remains high at 8% at 30 days, and 30% at one year.²
- Prompt surgery following preoptimisation decreases mortality & length of hospital stay.
- Regional anaesthesia should be considered whenever possible.^{3,4}

AIMS

- To assess compliance with standards outlined in the AAGBI guidelines entitled Management of Proximal Femoral Fractures 2011.³
- To assess anaesthetic technique employed in our hospital.

METHODS

Retrospective audit and re-audit

- Data collected for all patients undergoing surgery for fractured neck of femur over a two week period.
- Initial audit carried out in 2013. Reaudited in 2014 and 2015.

Standards

- Trust fractured neck of femur pathway
- 2011 AAGBI guidelines.³

Data collected

- FBC, U&Es, ECG available at preoperative assessment
- Use of preoperative IV fluids
- Operation within 48 hours
- Postponement -by whom and reason
- Time of operation
- Anaesthetic technique
- Grade of surgeon and anaesthetist
- Post op complications
- Mortality at 30 days

RESULTS



Anaesthetic technique





General

used.

anaesthetic with

Use of spinal

anaesthesia

increased from

spinal is no longer

30 day mortality

 In 2015 patient mortality at 60 days was 2 (12%)

CONCLUSION

- Initial compliance was poor across several of the standards, particularly surgery being carried out within 48 hours, the grade of anaesthetist delivering the anaesthetic, the preoperative investigations and IV fluid therapy.
- Incorporation of induction training on the use of the hospital fractured neck of femur pathway, and emphasis on importance of consultant led care for orthopaedic and anaesthetic teams has improved management across most standards.
- Further improvements would include routine use of regional techniques and a standardised department protocol for doing this, and training in techniques for trainees.
- Use of peripheral nerve blocks could increase, with referral to specialists within the department if necessary.

REFERENCES

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